Listing of Claims:

- 1. (Currently amended) A method for recovering mesenchymal stem cells, comprising:
 - (a) providing a cell mixture comprising mesenchymal stem cells and other cells;
- (b) seeding the cell mixture in a culture device comprising an upper plate with pores, said the pore size ranges from about 0.4 1.5 to 20 microns in diameter, and a lower plate base to separate mesenchymal stem cells from other cells through the pores, wherein the mesenchymal stem cells retain and adhere onto the upper plate, and the other small-sized cells pass through the pores to the lower plate base; and
 - (c) recovering the mesenchymal stem cells from the upper plate.
 - 2. (Canceled)
 - 3. (Canceled)
- 4. (Previously presented) The method as claimed in claim 1, wherein the cell mixture comprises mammalian mesenchymal stem cells.
 - 5. (Canceled)
- 6. (Previously presented) The method as claimed in claim 4, wherein the cell mixture comprises human mesenchymal stem cells.
- 7. (Previously presented) The method as claimed in claim 4, wherein the cells are selected from the group consisting of a bone marrow, an embryonic yolk sac, a placenta, an umbilical cord, a fetal, adolescent or adult body fluid, and a fetal,

adolescent or adult tissue.

8. (Canceled)

- 9. (Currently amended) The method as claimed in claim 1, wherein the mesenchymal stem cells are differentiable can differentiate into tissues comprising bone, adipose, or cartilage.
- 10. (Previously presented) The method as claimed in claim 1, wherein the mesenchymal stem cells are characterized by CD34-.
- 11. (Previously presented) The method as claimed in claim 9, wherein the mesenchymal stem cells are cultured in 10% fetal bovine serum-supplemented Dulbecco's modified Eagle's medium containing 1 g/L of glucose.
- 12. (Withdrawn) An isolated mesenchymal stem cell recovered by the method as claimed in claim 1, which has the capability of self-renewal and pluripotent differentiation.
- 13. (Withdrawn) The mesenchymal stem cell as claimed in claim 12, which can differentiate into tissue comprising bone, adipose, or cartilage.
- 14. (Withdrawn) The mesenchymal stem cell as claimed in claim 12, which is characterized by CD34-.
 - 15. (Withdrawn) A composition comprising the mesenchymal stem cell as

claimed in claim 12 and a culture medium, wherein the medium expands the mesenchymal stem cell.

- 16. (Withdrawn) The composition as claimed in claim 15, wherein the mesenchymal stem cell is characterized by CD34-.
- 17. (Withdrawn) The composition as claimed in claim 15, wherein the medium comprises DMEM-LG medium containing 10% fetal bovine serum.
- 18. (Withdrawn) A pharmaceutical composition comprising the mesenchymal stem cell as claimed in claim 12 and a pharmaceutically acceptable carrier, wherein the mesenchymal stem cell is present in an amount sufficient to serve as tissue replacement or gene therapy for tissue damaged by age, trauma, and disease.
- 19. (Withdrawn) A pharmaceutical composition as claimed in claim 18, wherein the mesenchymal stem cell can differentiate into tissues comprising bone, adipose, or cartilage.
- 20. (Withdrawn) A composition comprising as claimed in claim 18, wherein the mesenchymal stem cell is is characterized by CD34-.

21-22. (Canceled)

23. (Currently amended) The method as claimed in claim 5 7, wherein the body fluid is a bone marrow aspirate.

32. (Previously presented) the method as claimed in claim 1, further comprising, after step (b), a step of removing cells not adhered on the plate by changing a culture medium.